

Development of Biology MCQ Question Answer

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Question: 1. How many cleavages are completed in 16 cell stages of frog's egg ?

- Option A. 3
- Option B. 8
- Option C. 4
- Option D. 12

Question: 2. The expulsion of completely developed foetus from the uterus is known as

- Option A. ovulation
- Option B. placentation
- Option C. gestation
- Option D. parturition

Question: 3. For fertilization of the frog's egg

- Option A. sperms of same species are essential
- Option B. sperms do not need penetration
- Option C. sperms of any animal can fertilize
- Option D. only presence of male is sufficient

Question: 4. Grey crescent is present in

- Option A. zygote of frog
- Option B. brain of rabbit
- Option C. eye of frog
- Option D. retina of cockroach

Question: 5. In frog, gastrulation is completed by

- Option A. epiboly
- Option B. emboly
- Option C. both and
- Option D. delamination

Question: 6. Which of the following does not show metamorphosis ?

- Option A. Frog
- Option B. Housefly
- Option C. Hydra
- Option D. Mosquito

Question: 7. The first phase in the sexual reproduction of organisms is

- Option A. spermatogenesis

- Option B. oogenesis
- Option C. spermiogenesis
- Option D. gametogenesis

Question: 8. The formation, development and maturation of the female gamete is called

- Option A. ovulation
- Option B. oogenesis
- Option C. vitellogenesis
- Option D. folliculogenesis

Question: 9. During fertilization the spermatozoa penetrate through the egg membranes with the help of

- Option A. flagellum
- Option B. acrosome
- Option C. sperm lysins released from the acrosome
- Option D. mitochondria located at the middle piece

Question: 10. During normal development the activation of the egg is achieved by

- Option A. vitellogenesis
- Option B. oogenesis
- Option C. spermatogenesis
- Option D. fertilization

Question: 11. When the eggs are released from the ovary of frogs they are at the

- Option A. primary oocyte stage
- Option B. secondary oocyte stage
- Option C. ootid stage
- Option D. matured ova stage

Question: 12. The nervous system, epidermis and hairs and nails are derivatives of

- Option A. endoderm
- Option B. mesoderm
- Option C. ectoderm
- Option D. chordomesoderm

Question: 13. The allantoic vesicle arises from

- Option A. foregut
- Option B. midgut
- Option C. hindgut
- Option D. somatopleure

Question: 14. The formation of the neural tube is known as

- Option A. neurulation
- Option B. tubulation
- Option C. crania tion
- Option D. none of these

Question: 15. Development of egg without fertilization is termed as

- Option A. parthenogenesis
- Option B. parthenocarp
- Option C. polyembryony
- Option D. paedogenesis

Question: 16. During metamorphosis, the disappearance of larval organs is called

- Option A. histogenesis
- Option B. paedogenesis
- Option C. histolysis
- Option D. pedomorphosis

Question: 17. Cleidoic eggs are found in

- Option A. birds
- Option B. mammals
- Option C. insects
- Option D. molluscs

Question: 18. Metamorphosis is a characteristic feature of

- Option A. direct ontogenic development
- Option B. indirect ontogenic development
- Option C. chordates
- Option D. embryogenesis in mammals

Question: 19. The sexual embrace of the male and female frogs is called

- Option A. copulation
- Option B. amphimixis
- Option C. syngamy
- Option D. amplexus

Question: 20. Human egg is

- Option A. centrolecithal
- Option B. microlecithal
- Option C. mesolecithal
- Option D. telolecithal

Question: 21. Which of the following develops from ectoderm ?

- Option A. Spinal cord and brain
- Option B. Liver and heart
- Option C. Eye and skin
- Option D. Notochord and vertebral column.

Question: 22. Lateral line system of sense organs present in the skin of tadpole larva

- Option A. completely disappears during metamorphosis
- Option B. partially retained during metamorphosis
- Option C. partially disappears during later stages of metamorphosis
- Option D. fully retained in the adult frog

Question: 23. In order to become structurally and functionally a spermatozoan, each spermatid has to undergo a process of differentiation called

- Option A. spermiation
- Option B. spermiogenesis
- Option C. spermatogenesis
- Option D. androgenesis

Question: 24. In the human female, the primary oocytes remain small without any growth for

- Option A. 4-5 years
- Option B. 6-8 years
- Option C. 8 - 10 years
- Option D. 12 -14 years

Question: 25. Mammalian placenta is

- Option A. a cord between mother and foetus
- Option B. place of attachment in uterus wall where exchange of material between mother and foetus takes place
- Option C. outer covering of foetus
- Option D. allantoic part of the uterus

Question: 26. During the development of frog, the archenteron is formed in

- Option A. early blastula
- Option B. late blastula
- Option C. early gastrula
- Option D. late gastrula

Question: 27. The sperm produces substances of enzymatic nature of sperm lysin. In mammals, it is called

- Option A. hyaluronidase
- Option B. hyaluronic acid
- Option C. androgamone
- Option D. cryanogamone

Question: 28. Embryo sac in a hen's egg is formed by

Option A. ectoderm

Option B. meso derm

Option C. somatic mesoderm and endoderm

Option D. splanchnic mesoderm and ectoderm

Question: 29. If an unfertilized frog's egg is pricked with a micro-needle, it will

Option A. die immediately

Option B. start dividing

Option C. will remain undivided

Option D. transform into a tadpole at a faster rate

Question: 30. A freshly unfertilised egg of hen contains

Option A. one cell

Option B. 100 cells

Option C. 1000 cells

Option D. 10000 cells

Answer Sheet

1	C	
2	D	
3	A	
4	A	
5	C	
6	C	
7	D	
8	B	
9	C	
10	D	
11	B	
12	C	
13	C	
14	A	
15	A	
16	C	
17	B	
18	B	
19	D	
20	B	
21	A	
22	A	
23	B	
24	D	
25	B	
26	D	
27	A	
28	D	
29	B	
30	A	